

19. Examine the concepts of Dynamic-Source Routing and Adaptive Metrics of Ad-hoc Networks.
20. Illustrate the Protocol Architecture of Wireless Application Protocol.

NOVEMBER/DECEMBER 2025

FECA64C — MOBILE COMPUTING

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name three fundamental propagation behaviours of Radio Waves.
2. Differentiate between Fixed and Wireless Networks.
3. Enlist the advantages of GEO.
4. What are the features of GSM System?
5. State the advantages of WLAN.
6. List the benefits of Location Information for Routing in ad-hoc Networks.
7. What is known as a Socket Pair?
8. State the goal of a Mobile IP.



9. What is the use of WML?
10. Write down the objectives of Wireless Application Protocol Forum.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Narrate the different frequencies used for Radio Transmission.

Or

- (b) Briefly discuss on Frequency Hopping Spread Spectrum.

12. (a) Write an overview about the Satellite Systems.

Or

- (b) Discuss on Digital Audio and Video Broadcasting.

13. (a) Compare Infrared versus Radio Transmission.

Or

- (b) Outline about Infrastructure and ad-hoc Networks.

14. (a) Examine the goals, assumptions and requirements of Mobile IP.

Or

- (b) How can Dynamic Host Configuration Protocol be used for Mobility and support for WAP? Explain.

15. (a) Summarize on "Wireless Telephony Application."

Or

- (b) Analyze about the features of Wireless Mark-Up Language.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Expound various Multiplexing techniques used in Wireless Communication.
17. Describe the Mobile Services, Protocols and System Architecture of GSM.
18. Elucidate the Protocol Layers and Components of Bluetooth Architecture.

